

## **CLAIMS**

What is claimed is:

1. An apparatus comprising:
  - a plurality of joists; and
  - a plurality of hubs pivotally attached to said plurality of joists, wherein said plurality of hubs are adapted to receive a work platform.
2. The apparatus of claim 1, wherein said plurality of joists are bar joists.
3. The apparatus of claim 1, wherein said plurality of joists are open-web joists.
4. The apparatus of claim 1, wherein said plurality of joists are shaped-steel.
5. The apparatus of claim 1, further comprising a suspension connector operatively attached to at least one of said plurality of hubs.
6. The apparatus of claim 1, further wherein said plurality of joists and plurality of hubs are capable of being articulated from a first position to a second position.
7. The apparatus of claim 1, wherein said plurality of hubs include a plurality of openings configured to receive said plurality of joists.

8. The apparatus of claim 7, wherein said plurality of openings include at least one slot.
9. The apparatus of claim 1, further comprising said work platform.
10. The apparatus of claim 5, wherein said suspension connector is a chain.

11. A work platform support system comprising:

a plurality of joists;

a plurality of hubs, wherein each hub operatively connects to at least two joists;

and

further wherein said system is configured to be articulating.

12. A work platform system comprising:

a plurality of joists;

a plurality of hubs, wherein each hub pivotally connects to at least two joists; and

at least one work platform which rests on at least one of said plurality of joists,  
said plurality of hubs, or a combination thereof.

13. A device for interconnecting with at least one joist of a work platform support system comprising:
- a first surface with a first set of openings;
- a second surface substantially parallel to said first surface, said second surface having a second set of openings; and
- a structural element interspersed between said first surface and said second surface, wherein at least one of said first set and said second set of openings is adapted to provide an articulation of said device when interconnected with said at least one joist.
14. The device of claim 13, wherein said first surface is substantially planar.
15. The device of claim 13, wherein said second surface is substantially planar.
16. The device of claim 13, wherein said structural element is a cylinder.
17. The device of claim 13, wherein said structural element is a right circular cylinder.
18. The device of claim 17, wherein a longitudinal axis of said right circular cylinder is normal to said first surface and said second surface.

19. The device of claim 13, wherein said first surface and said second surface interconnect with said at least one joist.
20. The device of claim 13, wherein one of said first surface and said second surface includes a support opening, wherein said support opening is configured to receive an attachment means.
21. The device of claim 20, wherein said attachment means is a chain.
22. The device of claim 20, wherein said support opening includes a slot.

23. A work platform system comprising:

- at least one hub;
- at least one joist interconnected with said at least one hub; and
- at least one section formed from said at least one hub and said at least one joist, wherein said at least one section can be articulated from a first position into a second position, further wherein said at least one section is capable of supporting without failure its own weight and at least about four times the maximum intended load applied or transmitted to it.

24. A work platform system for suspending a work platform from a structure, said system comprising:

a plurality of joists;

at least one hub for interconnecting at least two of said plurality of joists, wherein said at least two joists may articulate; and

a suspension connector for suspending said system from said structure.

25. A method comprising:

providing a plurality of joists; and

pivotsly attaching at least one hub to at least two of said plurality of joists,

wherein said at least one hub is adapted to receive a work platform.

26. A method of installing a work platform support system to a structure comprising:
  - providing a plurality of joists;
  - providing at least one hub;
  - pivottally attaching at least one hub to said plurality of joists; and
  - suspending said at least one hub from said structure.

27. A method of extending a second work platform system from a first, suspended work platform system, said method comprising:

attaching a plurality of joists to said first system;

attaching a plurality of hubs to said plurality of joists;

articulating said plurality of joists and plurality of hubs, thereby forming said extending second work platform system.

28. The method of claim 27, wherein said attaching and articulating does not require any hoisting equipment.

29. The method of claim 27, wherein said attaching and articulating is completed in a cantilevered manner.